
**FEASIBILITY STUDY REPORT
WITH INTEGRATED ENVIRONMENTAL ASSESSMENT**

**SECTION 206
VENTURA MARSH
AQUATIC ECOSYSTEM RESTORATION PROJECT**

APPENDIX E

**HAZARDOUS, TOXIC, AND RADIOACTIVE
WASTE DOCUMENTATION REPORT**

PHASE I ENVIRONMENTAL SITE ASSESSMENT

**SECTION 206
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**HAZARDOUS, TOXIC, AND RADIOACTIVE WASTE
DOCUMENTATION REPORT**

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EXECUTIVE SUMMARY

Ventura Marsh Aquatic Ecosystem Restoration Project is located on the western edge of Cerro Gordo County and the eastern edge of Hancock County in Iowa. This project area is comprised of approximately 800 acres that are wetlands. The Phase I Environmental Site Assessment (ESA) was completed in accordance with the procedures and limitations of the American Society for Testing & Materials (ASTM) Standard E 1527-05, E 1528-05, ER 1165-2-132, HTRW Guidance for Civil Works Projects, and Engineering Regulation (ER) 405-1-12 Real Estate Handbook. The purpose of a Phase I ESA is to identify recognized environmental conditions associated with the project area.

This Phase I ESA process does not include a detailed field investigation (such as sampling and/or testing) of such conditions. It did include an evaluation of individual properties within and adjacent to the project area. Other information obtained was from interviews, evaluation of historical aerial photographs, historic topographic mapping, a review of federal and state regulatory records for project area, and visual evaluation.

The Phase I ESA has revealed no recognized environmental conditions or other regulated contaminants in connection with the proposed project area. Further, no additional Hazardous, Toxic, and Radioactive Waste (HTRW) investigations are recommended. Initial review of the standard environmental records sources identified four potential recognized environmental conditions, but further investigation and evaluation found these conditions to be *de minimus*.

No ESA can wholly eliminate uncertainty regarding the existence for recognized environmental conditions concerning a property. This assessment is intended to reduce, but not eliminate, uncertainty regarding the existence of recognized environmental conditions in connection with a property with reasonable limits of time and cost. Continuing the Environmental Due Diligence Audit process beyond this Phase I ESA would not reduce uncertainty, nor reveal any unidentified environmental liabilities. If any previously un-addressed recognized environmental conditions should arise, this Phase I will be revisited.

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PHASE I ENVIRONMENTAL SITE ASSESSMENT

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PHASE I ENVIRONMENTAL SITE ASSESSMENT

I. GENERAL

A. Authority. The Ventura Marsh Aquatic Ecosystem Restoration Project is proposed under the authority of Section 206 of the 1996 Water Resources Development Act as amended. Section 206 authorizes modifications to the structures and operations of water resource projects constructed by the Corps of Engineers that are feasible and consistent with authorized project purposes and will improve the quality of the environment in the public interest.

B. Guidance and Policy. The U.S. Army Corps of Engineers (Corps) Engineering Regulation (ER) providing guidance for the conduct of Civil Works Planning Studies is contained in ER 1105-2-100. The policies and authorities outlined in ER 1165-2-132 and ER 1165-2-9, HTRW Guidance for Civil Works Projects, and ER 405-1-12, Real Estate Handbook, were developed to facilitate the early identification and appropriate consideration of HTRW issues in all of the various phases of a water resources study or project. The American Society for Testing and Materials (ASTM) Standards E 1527-05 and E 1528-05 provide a comprehensive guide for conducting Phase I Environmental Site Assessment (ESA). These references provide information on what considerations are to be factored into project planning and implementation. The policy of the Corps is to avoid construction or secure real estate interests in lands where HTRW or other regulated materials is located within project boundaries or may affect or be affected by such projects.

II. INTRODUCTION

A. Purpose. The specific purpose of a Hazardous, Toxic, and Radioactive Waste Documentation Report (HTRWDR) is to adequately document an appropriate inquiry into HTRW activities on potential project lands associated with the Ventura Marsh Aquatic Ecosystem Restoration Project.

B. Scope. This inquiry is required in order to minimize and prevent Federal liability under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), to reduce any threats to project workers, and avoid costly delays associated with environmental abatement activities.

The information collected for this Phase I ESA (ASTM E 1527-05) was obtained through records review of Federal and state environmental databases along with historic maps and aerial photographs. A site reconnaissance was performed to observe and note visual and physical evidence of recognized environmental conditions. More information was collected from interviews with owners, occupants, state and/or local government, and other knowable individuals. However, intrusive field sampling and lab analyses are not used for the Phase I ESA, but are reserved for the Phase II ESA when required. Finally, findings from the records review, site reconnaissance, and interviews are included in this appendix.

C. Significant Assumptions. It is assumed that all information assessed and collected for this Phase I ESA is accurate. The validity of the obtained information was not verified.

D. Limitations and Exceptions. No ESA can wholly eliminate uncertainty regarding the existence of recognized environmental conditions concerning a property. This assessment is intended to reduce, but not eliminate, uncertainty regarding the existence of recognized environmental conditions in connection with a property with reasonable limits of time and cost. Professional judgment was used in collecting and evaluating data, and in formulating a recommendation.

Historical and regulatory record reviews are limited by the level of data collected by the recording agency, availability of record coverage, and by data transparency. If provided by the recording agency, statements regarding the limits of database were included with a copy of the findings. Record coverage research was limited to records on the Rock Island District (District) intranet site; state and Federal regulatory agency websites; Environmental Data Resources, Inc. search results; and popular mapping websites. Data was considered transparent only if it could easily be geospatially referenced to the property.

E. Site Safety. A Site-specific Safety and Health Plan (SSHP) was prepared for a site visit. Investigators followed all generic requirements of the USACE Safety and Health Requirements Manual, Engineering Manual 385-1-1. The SSHP is contained in appendix E-C.

III. SITE DESCRIPTION

A. Location and Legal Description. Ventura Marsh is located on the western edge of Cerro Gordo County and the eastern edge of Hancock County, in Section 19, Township 96 N, Range 22W and Section 24, Township 96N, Range 23W.

B. Site and Vicinity Characteristics. Ventura Marsh is an approximately 800-acre wetland complex located within the Ventura Marsh State Wildlife Management area, which is owned and managed by the Iowa Department of Natural Resources (DNR). The marsh is adjacent to and just west of Clear Lake where it serves as a buffer between the primarily agricultural watershed and the lake. The project area includes a wetland, farmed upland borrow site, and an upland road berm. Bordering the project area are state parks, the town of Ventura, and farmland (Figure E-1).

C. Current Use of the Property. The project area is currently a wetland with some farmed upland area to the north.

D. Descriptions of Structures, Roads, Other Improvements on the Site. On site there is one water control structure located west of Highway S14 (Balsam Ave). Highway S14 separates Ventura Marsh and Clear Lake and provides access to the water control structure. On the east side of Highway S14 an overhead power line runs parallel to the highway. West of Highway S14, the Iowa Department of Natural Resources has one public boat ramp with a gravel parking lot available for public use. To the north of the project site is US Highway 18, a railroad, and the City of Ventura.

E. Current Uses of Adjoining Properties. Adjoining properties are primarily agricultural in nature to the west and south, and residential areas to the northeast.

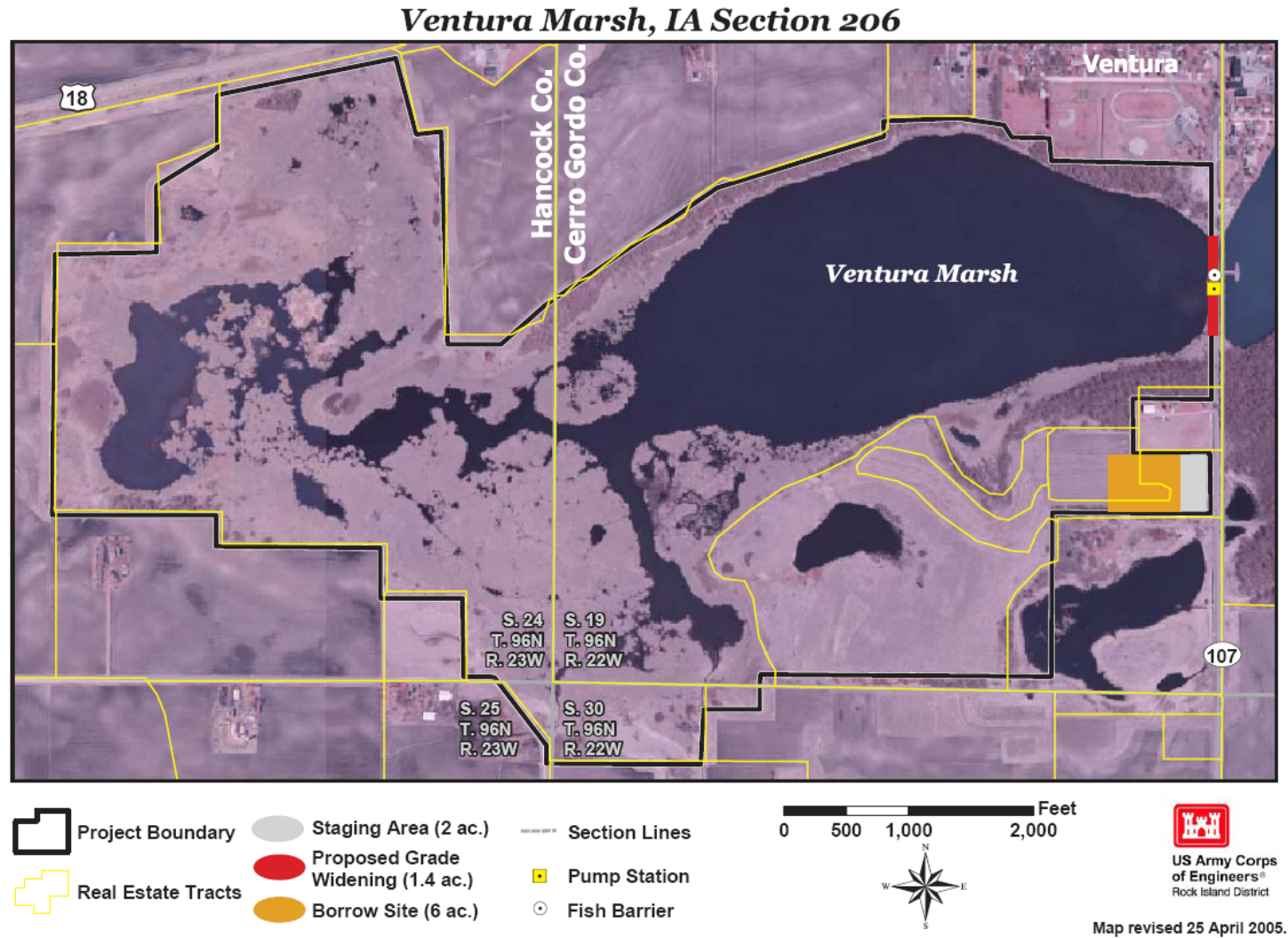


Figure E-1 Ventura Marsh Project Area

IV. USER PROVIDED INFORMATION

A. Title Records and/or Environmental Liens. It was determined that the State of Iowa Conservation Commission/Iowa Department of Natural Resources has acquired all of the land included in the project footprint. The project area was acquired from approximately 12 different landowners during the early 1940s timeframe. See Appendix E-D for all the tract information. Overall, this title search did not indicate any recognized environmental conditions from the usage of the property.

There are no Mechanics Liens, Environmental Liens, or Judgments affecting the lands identified for the Ventura Marsh Project.

B. Specialized Knowledge. The Iowa DNR provided electronic copies of the project aerial photography from 1972, 1974, 1978, 1979, 1982, 1984, 1987, 1994, and 2004 that were used in developing this report.

C. Valuation Reduction for Environmental Issues. There are no known significant reductions in purchase price related to environmental issues noted for these properties by the Iowa DNR.

D. Ownership, Property Manager, and Occupant Information. The Iowa DNR is the identified owner and property manager of Ventura Marsh.

E. Reason for Performing Phase I Environmental Site Assessment. The purpose of this Phase I ESA is to identify recognized environmental conditions that could materially impact the project area.

V. RECORDS REVIEW

The purpose of the records review is to help identify sites within approximate minimum search distance that could potentially impact the project area. The approximate search distance is defined in ASTM E 1527-05 and E 1528-05.

This records review included querying several environmental databases and an outside consultant, Environmental Data Resources, Inc (EDR). More specific information about the results from the record review and the EDR area study are contained in Appendix E-E.

A. Standard Environmental Record Sources

1. EnviroMapper and EnviroFacts Database Review. The U.S. Environmental Protection Agency (USEPA) records were searched within a 1-mile search distance of the property. The search was performed using EnviroMapper in conjunction with EnviroFacts on August 18, 2006 by zooming into the project area on a map. The EnviroMapper search found two sites, Northern Border Pipeline Company and Top of Iowa, within the search distance. After investigating these two sites no environmental concerns were identified. A map showing the results is located in Appendix E-E.

2. Environmental Database Review. Environmental Data Resources (EDR), Inc. was procured to provide records searches for the project area. On June 29, 2006, EDR searched 41 databases,

including the Federal, state, and tribal databases required by the ASTM standard. The first page of the executive summary in the EDR report list the databases searched. A description of the databases can be found in the Government Records Searched/Data Currency Tracking section of the EDR report. The complete EDR report is available upon request from the Environmental Engineering Section of the Rock Island District.

EDR found a total of four potential sites: Ventura Mart, Northern Border Pipeline Company, Hancock Co Coop, and Ventura School. The details of the sites include:

- Two Resource Conservation and Recovery Act Small Quantity generators (RCRA-SQG) sites – Ventura Mart was identified 1/8 mile to the north, Map ID No. 2; and Northern Border Pipeline Company was identified 1/8 mile to the west, Map ID No. 4. After further investigation no environmental concerns were identified with the above small quantity generators.
- Two Facility Index System/Facility Registry System (FINDS) sites – Ventura Mart was identified 1/8 mile to the north, Map ID No. 2; and Northern Border Pipeline Company was identified 1/8 mile to the west, Map ID No. 4. These two locations are out of the construction area for the restoration of Ventura Marsh; therefore, no environmental concerns were identified.
- Three Leaking Underground Storage Tank (LUST) sites – Hancock Co COOP was identified 1/4 mile to the north, Map ID No. 1; Ventura Mart was identified 1/8 mile to the north, Map ID No. 2; and Ventura School was identified 1/4 mile to the north, Map ID No. 3. No actions were required on any of the three sites. Migrations of any contamination released from these sites are very slow; therefore, they did not cause environmental concerns within the construction area for Ventura Marsh.
- Four Underground Storage Tank (UST) sites – Ventura Telephone Co was identified 1/4 mile to the north, Map ID No. 1; Hancock Co COOP was identified 1/4 mile to the north, Map ID No. 1; Ventura Mart was identified 1/8 mile to the north, Map ID No. 2; and Ventura School was identified 1/4 mile to the north, Map ID No. 3. After further investigation no environmental concerns were identified with the underground storage tanks.

3. National Response Center (NRC). The NRC database was queried on August 18, 2006 via <http://www.nrc.uscg.mil/>. A search was conducted using Hancock and Cerro Gordo County, Iowa. Hancock County contained 30 sites and Cerro Gordo County contained 81 sites, however, none of these sites were within the search distance.

B. Additional Environmental Record Sources. No additional environmental record sources were searched.

C. Physical Setting Source(s)

1. Current 7.5-Minute USGS Topographic Map. The topographical vicinity map included in Appendix E-G is the current USGS Topographic Map from 1980. It includes the project location and surrounding area. The USGS topographic image suggests the surrounding ground slopes toward the marsh and lake. Groundwater flow tends to follow the land slope; therefore, it is expected that the groundwater flow be directed to the marsh and lake as well.

2. Hydrogeologic Data. Ventura Marsh lies in the Algona-Altamont moraine complex of the Des Moines Lobe. The marsh has varying topography with slopes from 0 to 25 percent. The soils in the watershed are classified hydrologically as Group B. Group B soils have a moderate infiltration rate when thoroughly wet. These soils consist chiefly of moderately deep; deep, moderately well-drained; or well-drained soils that have moderately fine texture to moderately coarse texture. They have a moderate rate of water transmission. (Downy, 2001)

D. Historical Use Information on the Project Area and Adjoining Properties. Historical information can provide evidence of previous uses of the project area and surrounding area, which can help identify if any possible recognized environmental conditions exist. According to ASTM E 1527-05, property uses shall be identified from the present, back to the property's first developed use, or back to 1940.

Historic aerial photographs, and topographical maps were obtained from the District, Iowa DNR, and from EDR Inc resources.

1. Historic Aerial Photographs. The Iowa DNR supplied aerial photographs for the following years: 1972, 1974, 1978-79, 1982, 1984, 1987, 1994, and 2004. These aerial photographs are included in Appendix E-G. The aerial photographs did not show any recognized environmental conditions. The aerial photographs did show the project area as a marsh. In 1972 and 1984 the marsh had little vegetation, but in 1978 it was almost fully vegetated. The surrounding areas have been consistently agricultural fields since the start of the aerial photographs.

2. Historical Topographical Maps. The EDR was procured to acquire historical topographic maps. They found four 7.5 Minute Series maps from 1972: Miller, Iowa; Clear Lake West, Iowa; Garner, Iowa; and Ventura Heights, Iowa,. These maps are included in Appendix E-G. The topographical maps show the project area as a marsh with a small city, Ventura, to the North. The area surrounding the march is undeveloped.

VI. SITE RECONNAISSANCE

On March 8, 2005, Ms. Julie Fisher from the U.S. Army Corps of Engineers, Rock Island District, Environmental Engineering Section (EC-DN) performed a site investigation of the project area. This investigation was conducted in accordance with ASTM 1527-05 to "obtain information indicating the likelihood of identifying recognized environmental conditions" related to the project area.

A. Methodology and Limiting Conditions. Site reconnaissance consisted of a site visit on March 8, 2005, which included a visual inspection of project area and adjoining properties to determine any potential impacts from geologic or topographic conditions. Other objectives of the site visit included: identifying structures, solid waste disposal sites, wastewater discharge sites, wells, and septic systems, and looking for stressed vegetation. Assessment methods did not involve intrusive techniques such as taking and analyzing soil samples. Site reconnaissance photographs are located in Appendix E-G.

The following limitations were encountered in performing the site investigation:

- Only the proposed project feature areas and borrow area were walked due to the site size and time frame allotted.
- The surrounding areas were viewed from a car due to the vast lands that needed to be covered.
- The most western end of the marsh was not viewed during the site investigation due to lack of access.

B. General Site Setting. The project area was investigated for evidence indicating the current and past use of the project area and adjoining properties. The current use of the project area was as a marsh with one boat ramp and a parking lot located on the northeast corner of the project area. See Photographs 1 through 7 in Appendix E-G. North of the boat ramp is Ventura Elementary school. To the east of the boat ramp on the adjoining property the Iowa DNR is creating a parking lot with a trail (Appendix E-F, Photographs 8, 9 and 10). The other adjoining properties were mostly agricultural areas. See Appendix E-G, *Historical Research Documentation*.

The borrow area was observed as an agricultural area (Appendix E-F, Photographs 22 through 28).

East of the project area is county Highway 107 (or Balsam Ave) that runs north and south (Appendix E-F, Photographs 11 and 12). Also to the north is U.S. Highway 18 that runs east and west.

C. Interior and Exterior Observations

Structures. No buildings were identified onsite. One stoplog structure was viewed in the center of county Highway 107. The stoplog structure is old and not in good shape (Appendix E-F, Photographs 15, 16, 17, and 18).

Hazardous Substances and Petroleum Products in Connection with Identified Uses. None were identified.

Storage Tanks. None were identified.

Odors. None were identified.

Pools of Liquid. No standing surface water containing petroleum was identified.

Drums. None were identified.

Hazardous Substance and Petroleum Products Containers. None were identified.

Unidentified Substance Containers. None were identified.

Indication of Poly Chloro Biphenyls (PCBs). None were identified.

Pits, Ponds, or Lagoons. None were identified.

Stained Soil or Pavement. No stained soil or pavement was identified.

Stressed Vegetation. None were identified.

Indications of Solid Waste. None were identified.

Waste Water. No discharge drains were identified.

Wells. None were identified.

Septic Systems. None were identified.

Other Conditions of Concern. Due to the agricultural nature of the surrounding lands, it is expected that herbicides and pesticides were used on the site and on adjacent sites.

VII. INTERVIEWS

This section summarizes known or suspect environmental conditions associated with the property, and may include current recognized environmental conditions, historical recognized environmental conditions, *de minimus* environmental conditions, and other environmental conditions. Documentation of the interviews is in Appendix E- H.

A. Interviews with Owner, Site Manager, and/or Occupants. The site manager, Mr. Doug Janke, was contacted by phone and interviewed. Mr. Janke has been associated with Ventura Marsh since 1983. During that time, Mr. Janke has had no knowledge of any environmental issues, spills, or dumping in or around the project area.

B. Local Government Officials

1. Fire Department. The City of Clear Lake Fire Department was contacted by phone and interviewed. Mr. Doug Meyer, Chief of the Volunteer Fire Department, reported that he has been associated with the project area for 30 years. In that time, has known of no environmental issues or spills around the project area.

2. Cerro Gordo County Engineer. Ms. Mary Kelly, the Cerro Gordo County Engineer was contacted by phone and interviewed. Ms. Kelly reported that she has no knowledge of any environmental concerns with Highway S14.

C. USACE Interview. Mr. John Gall, Engineering Technician was interviewed because of his past survey work with the project area. The USACE survey crew surveyed the marsh this past February. Mr. John Gall did not see any areas of environmental concern within the marsh.

VIII. FINDINGS

This section summarizes known or suspect environmental conditions associated with the property, and may include current recognized environmental conditions, historical recognized environmental conditions, *de minimus* environmental conditions, and other environmental conditions.

The review of federal and state databases, physical setting sources, historical sources, and a site visit revealed no evidence of recognized environmental conditions.

IX. OPINION

The findings above have been evaluated using appropriate data and information associated with the Ventura Marsh. It is the opinion of Environmental Engineering Branch of the Rock Island District, EC-DN personnel, that no evidence of recognized environmental conditions was identified through the environmental database searches, informal interviews, historical records and maps, and land title records. No further HTRW investigations are recommended at this time. If any evidence of recognized environmental conditions is discovered during construction activities, operations should cease until an assessment is performed at which the Phase I ESA will be revisited.

X. CONCLUSIONS

We have performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-05 of Ventura Marsh, Iowa. Any exceptions to, or deletions from, this practice are described in the General Section of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with Ventura Marsh.

XI. DEVIATIONS

No deviations were made from the ASTM E 1527-05 Standard Practice of Environmental Site Assessments: Phase I Environmental Site Assessment Process.

XII. SIGNATURE OF ENVIRONMENTAL PROFESSIONAL(S)

The following person was responsible for the preparation of this report.

Prepared by: _____ Date: _____

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in CFR Part 312.

Reviewed by: _____ Date: _____

APPENDIX E-A

ACRONYMS

| | |
|----------|--|
| AIRS/AFS | Aerometric Information Retrieval System/AIRS Facility Subsystem |
| ASTM | American Society for Testing and Materials |
| CEMVR | Corps of Engineers, Mississippi Valley Division, Rock Island District |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| CERCLIS | Comprehensive Environmental Response, Compensation, and Liability Information System |
| DNR | Department of Natural Resources |
| EC-DN | Engineering Division - Environmental Engineering Section |
| EDR | Environmental Data Resources Inc |
| EM | Engineering Manual |
| EMCI | EnviroFacts Master Chemical Integrator |
| EPA | Environmental Protection Agency |
| ER | Engineering Regulation |
| ESA | Environmental Site Assessment |
| FII | Facility Identification Initiative |
| FINDS | Facility Index System |
| GICS | Grants Information and Control System |
| GIS | Geographic Information System |
| GREAT | Great River Environmental Action Team |
| HTRWDR | HTRW Documentation Report |
| HTRW | Hazardous, Toxic, and Radioactive Waste |
| LUST | Leaking Underground Storage Tanks |
| NRC | National Response Center |
| PCS | Permit Compliance System |
| RCRA | Resource Conservation and Recovery Act |
| RCRIS | Resource Conservation and Recovery Information System |
| SDWIS | Safe Drinking Water Information System |
| SSHP | Site Specific Safety and Health Plan |
| TRIS | Toxic Release Inventory System |
| USGS | United States Geological Survey |
| UST | Underground Storage Tanks |

APPENDIX E-B

REFERENCES AND ABSTRACTS

- ASTM E 1527-05, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.
- ASTM E 1528-05, Standard Practice for Environmental Site Assessments: Transaction Screen Process
- Downing, John, Jeff Kopaska, and Don Bonneau. *Clear Lake Diagnostic & Feasibility Study*. November 2001.
- EDR DataMap Area Study, Environmental Data Resources, June 29, 2006.
- U. S. Army Corps of Engineers (USACE), ER 385-1-92, *Safety and Occupational Health Document Requirements for Hazardous, Toxic, and Radioactive Waste (HTRW) and Ordnance and Explosive Waste (OEW) Activities*, 18 March 1994.
- USACE, ER 1165-2-132: *Hazardous, Toxic, and Radioactive Waste Guidance for Civil Works Projects*, 26 June 1992
- USACE, Policy Guidance Letter No. 34, CECW-PA, *Non-CERCLA Regulated Contaminated Materials at Civil Works Projects*, 5 May 1992.
- USACE, ER 405-1-12, *Real Estate Handbook, Chapter 8*.
- USACE, ER 500-1-1, *Natural Disaster Procedures*.

MAPS AND PHOTOGRAPHS

- Iowa Department of Natural Resource. *Aerial Photo of Ventura Marsh*. 1972, 1974, 1978, 1979, 1982, 1984, 1987, 1994, and 2004.
- U.S. Geological Survey (USGS). Clear Lake West Quadrangle, Iowa, 7.5-Minute Series (Topographic) USGS Map. 1972 and 1980.
- USGS. Garner Quadrangle, Iowa, 7.5-Minute Series (Topographic) USGS Map. 1972 and 1980.
- USGS. Miller Quadrangle, Iowa, 7.5-Minute Series (Topographic) USGS Map. 1972 and 1980.
- USGS. Ventura Heights Quadrangle, Iowa, 7.5-Minute Series (Topographic) USGS Map. 1972 and 1980.

INTERNET WEB SITES

- United States Coast Guard, "National Response Center," <http://www.nrc.uscg.mil/insum.html>. Last queried on June 29, 2006
- United States Environmental Protection Agency, "EnvironMapper," <http://maps.epa.gov/enviromapper/>. Last queried on June 29, 2006

APPENDIX E-C

SITE SPECIFIC SAFETY AND HEALTH PLAN (SSHP)

DRAFT

| | | | | | |
|---|--------------|--|---|-------------------------|--------------|
| SITE SPECIFIC SAFETY AND HEALTH PLAN TITLE PAGE Rock Island District Corps of Engineers | | | This SSHP is a part of the Rock Island District HTRW Program, which includes EM 385-1-1 and ER 385-1-92. | | |
| PROJECT NAME: Ventura Marsh, Section 206 | | | REQUEST FOR SERVICES NO.: | | |
| JOBSITE ADDRESS: Ventura Grade across from Clear Lake, Section 19 & 20 line | | | COST CODE: | | |
| PROJECT MANAGER: Camie Knollenberg | | | PHONE NO.: (309) 794-5487 | | |
| SITE CONTACT: David Knoll | | | PHONE NO.: (641) 923-2837 ext 3 | | |
| () AMENDMENT NO. ____ TO EXISTING APPROVED SSHP. DATE EXISTING APPROVED SSHP: | | | | | |
| OBJECTIVES OF FIELD WORK: Environmental Site Assessment for Ventura Marsh project. A site visit of the project area will be made. Environmental concerns will be documented. No intrusive investigations (soil samples, etc.) will be conducted. | | | SITE TYPE: Check as many as applicable: <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Active <input type="checkbox"/> Inactive <input type="checkbox"/> Secure <input type="checkbox"/> Unsecure <input type="checkbox"/> Enclosed space </div> <div> <input type="checkbox"/> Landfill <input type="checkbox"/> Uncontrolled <input type="checkbox"/> Industrial <input type="checkbox"/> Residential <input type="checkbox"/> Well Field </div> <div> <input checked="" type="checkbox"/> Natural <input type="checkbox"/> Military <input type="checkbox"/> Other specify: </div> </div> | | |
| DESCRIPTION AND FEATURES: Summarize below. Include principal operations and unusual features (containers, buildings, dikes, power lines, hills, slopes, river, etc.). The Project site is a navigation lock and dam on the Illinois Waterway. Adjacent properties are undeveloped bottomland forests and wetlands. | | | | | |
| SURROUNDING POPULATION: () Residential () Industrial (X) Rural () Urban () Commercial: () Other: | | | | | |
| EMERGENCY CONTACTS | | | EMERGENCY CONTACTS | | NAME |
| Water Supply | N/A | | Project Manager | Camie Knollenberg | 309-794-5487 |
| Site Telephone | N/A | | Safety and Health Manager | Dean Magee | 309-794-5280 |
| EPA Release Report No. | 800-424-8802 | | Industrial Hygienist | | |
| | | | Environmental Agency | Iowa DNR (Jim Wahl) | 641-357-3517 |
| | | | State Spill Number | Emergency Response Unit | 800-782-7860 |

| | | | |
|--|--------------------|---|----------------|
| SITE SPECIFIC SAFETY AND HEALTH PLAN TITLE PAGE Rock Island District Corps of Engineers | | This SSHP is a part of the Rock Island District HTRW Program, which includes EM 385-1-1 and ER 385-1-92. | |
| CONTINGENCY PLANS Read and Refer to DM 385-1-2, Appendix H . Enter any additional Site Specific Information and clarifications below: 1. Evacuation Routes will be to the roads that lead away from the site and perpendicular to the alignment. 2. Personnel will evacuate if there appear to be any conditions that could expose any of the site visitors to an environmental or safety hazard. 3. All accidents will be reported in accordance with DM 385-1-1, Appendix B , including preparing an accident report form ENG 3394, as required by the appendix. 4. The overall plan is to evacuate the site in case of an emergency. In case of a medical emergency, the local EMS will be contacted from the nearest available telephone (resident or business). | | Fire Department | 911 |
| | | Police Department | 911 |
| | | Poison Control Center | |
| | | Occupational Health Unit | |
| | | MEDICAL EMERGENCY | |
| | | Hospital Name: Mercy Medical Center – North Iowa | 1-800-433-3883 |
| | | Hospital Address: 1000 4 th Street SW | |
| HEALTH AND SAFETY PLAN APPROVALS | | Name of Contact at Hospital: | |
| Prepared by: Julie L. Fisher | Date: 6 March 2006 | Name of 24-Hour Ambulance: | |
| Reviewed by: Kara Mitvalsky | Date: 6 March 2006 | Route to Hospital can be seen on the following page. The plan is to call 911 from the nearest telephone should there be an emergency. | |



Figure E-C-1. Route to Mercy Medical Center North Iowa

Driving Directions:

| | |
|---|-----------|
| Stay on S-14 (S Main St) | 0.2 mile |
| Turn Right (East) onto US-18 (255 th St) | 5.9 miles |
| Keep Right to stay on US-18 | 0.3 mile |
| Road name changes to SR-122 (US-18 Bus), then changes to 4 th St. SW | 7.1 miles |
| Arrive 1000 4 th St SW, Mason City, IA 50401 | |

APPENDIX E-D

TITLE INFORMATION

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VENTURA MARSH DEED LISTING (HANCOCK COUNTY, CONCORD TWP)

| Tract No. | Conveyance No. | Date of Conveyance | Type of Document | Name of Grantee | Name of Grantor | Legal Description |
|------------------|------------------------------|---------------------------|-------------------------|------------------------------------|-----------------------------------|--|
| A | Book 48, Page 102 | 23-Jun-41 | Warranty Deed | State of Iowa | A.T. and Sadie Fillenwarth | N1/2 of SE1/4 of S24 |
| B | Book 48, Page 164 | 15-Nov-41 | Warranty Deed | State of Iowa | Eleanor I. and J.F. Kennedy | NE1/4 of SW1/4 and N 7.5 ac of SW1/4 of SE1/4 in S24 |
| C | Book 48, Page 200 | 15-Dec-41 | Special Warranty Deed | State of Iowa | Occidental Life Insurance Co. | Part of NE1/4 of S24 |
| D | Book 1, Page 79/Condemnation | 27-Apr-42 | Condemnation | Iowa State Conservation Commission | Condemnation (Stoynoff & Balaban) | N1/2 of SE1/4 of SE1/4; SE1/4 of SE1/4 of SE1/4 all in S24; NE corner of NE1/4 of NE1/4 of S25 |
| E | Book 1, Page 87/Condemnation | 27-Apr-42 | Condemnation | Iowa State Conservation Commission | Condemnation (Knopp) | N1/2 of SE1/4 of SE1/4 |

VENTURA MARSH DEED LISTING (CERRO GORDO COUNTY, CLEAR LAKE TWP)

| Tract No. | Conveyance No. | Date of Conveyance | Type of Document | Name of Grantee | Name of Grantor | Legal Description |
|------------------|-----------------------|---------------------------|--------------------------------|---|---|--|
| A | Book 238, Page 319 | 25-Nov-81 | Warranty Deed | Iowa Conservation Commission | Wilbur S. and Cleo G. Overgaard | S1/2 of SE 1/4 of SE 1/4 of S19 |
| B | Book 124, Page 45 | Unknown | Warranty Deed | Iowa State Conservation Commission | Margaret & Clark Halvorson; Lawrence and Edith F. Westcott; Virginia and Clark Fankell; Jean and Donald Fowler | E1/2 of SW 1/4; W1/2 of SE 1/4 of the NE 1/4 of the SE 1/4 of S19 |
| C | Book 94, Page 246 | 03-Jul-41 | Warranty Deed | State of Iowa | Union Investment Company | SW1/4 of SW1/4 and NW1/4 of SW 1/4 of S19 |
| D | Book 94, Page 289 | 08-Jul-41 | Warranty Deed | State of Iowa | Allan F. Beck | SE1/4 of NE1/4; Part of E1/2 of SW1/4 of NE1/4...of S19 |
| E | Book 94, Page 478 | 25-Aug-41 | Warranty Deed | Iowa State Conservation Commission | Edwin R. Benner | Part of S1/2 of W1/2 of NE1/4 of S19 |
| J | Book 95, Page 525 | 1943 | Warranty Deed | Iowa State Conservation Commission | Golden L. and W. Roy Davis | NW1/4 of NE1/4 of S19 |
| K | Book 97, Page 140 | 09-May-44 | Quit Claim Deed | State of Iowa | Edd and Anna Hollatz | NW1/4 of NE1/4 of S19 |
| L | Book 97, Page 117 | 03-Apr-44 | Warranty Deed | Iowa State Conservation Commission | L.J. and Ilo Kinsella | NW1/4 of NE1/4 of S19 |
| U | Book 95, Page 25 | 07-Mar-42 | Warranty Deed- Condemnation | Iowa State Conservation Commission | Prudential Insurance Company | NW1/4 of SE1/4 ; SW1/4 of SE1/4; NE1/4 of SW1/4, and SE1/4 of SW1/4 of S19 |
| V | Book 95, Page 19 | 19-Jun-42 | Warranty Deed | Iowa State Conservation Commission | Vern R. and Gladys Bowen | All of N1/2 of NW1/4 of NW1/4 Except S 440' of E 132' of S30 |
| 1a | | 29-Sep-04 | Trustees Warranty Deed | State of Iowa Iowa Department of Natural Resources | Russell Richard Rippen Trust #U/A 3-19-93 | A portion of the NW1/4 of the SW1/4 of the NW1/4 of S20, T96N, R22W |

APPENDIX E-E

STANDARD ENVIRONMENTAL RECORDS SOURCES

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I. EnviroMapper and EnviroFacts Database Review. EnviroFacts, created by the USEPA, is a relational database warehouse implemented in the Oracle Relational Database Management System that is available through the Internet for public access. EnviroMapper is a mapping application that combines environmental data in EnviroFacts with interactive Geographic Information System (GIS) functions for the contiguous United States. It has the ability to retrieve information from the following environmental databases:

- Superfund
- SDWIS – Safe Drinking Water Information System
- RCRAInfo - Resource Conservation and Recovery Information System
- TRIS - Toxic Release Inventory System
- FRS – Facility Registry System
- PCS - Permit Compliance System
- Brownfields
- EMCI – Envirofacts Master Chemical Integrator
- NCOD – National Drinking Water Contaminant Occurrence Database
- ICR – Information Collection Rule
- AIRS/AFS - Aerometric Information Retrieval System / AIRS Facility Subsystem
- RadNet – Formerly Environmental Radiation Ambient Monitoring System (ERAMS)
- CERCLIS - Comprehensive Environmental Response, Compensation, and Liability Information System

Using EnviroMapper database within an approximate search distance of the project area the following two sites were located, Northern Border Pipeline Company and Top of Iowa (Figure E-E-1). Additional information was obtained from EnviroFacts. Northern Border Pipeline Company transports hazardous waste and is considered a small quantity generator. Top of Iowa reports their air emissions. These two sites did not show any evidence of recognized environmental conditions.

The database was queried on August 18, 2006.

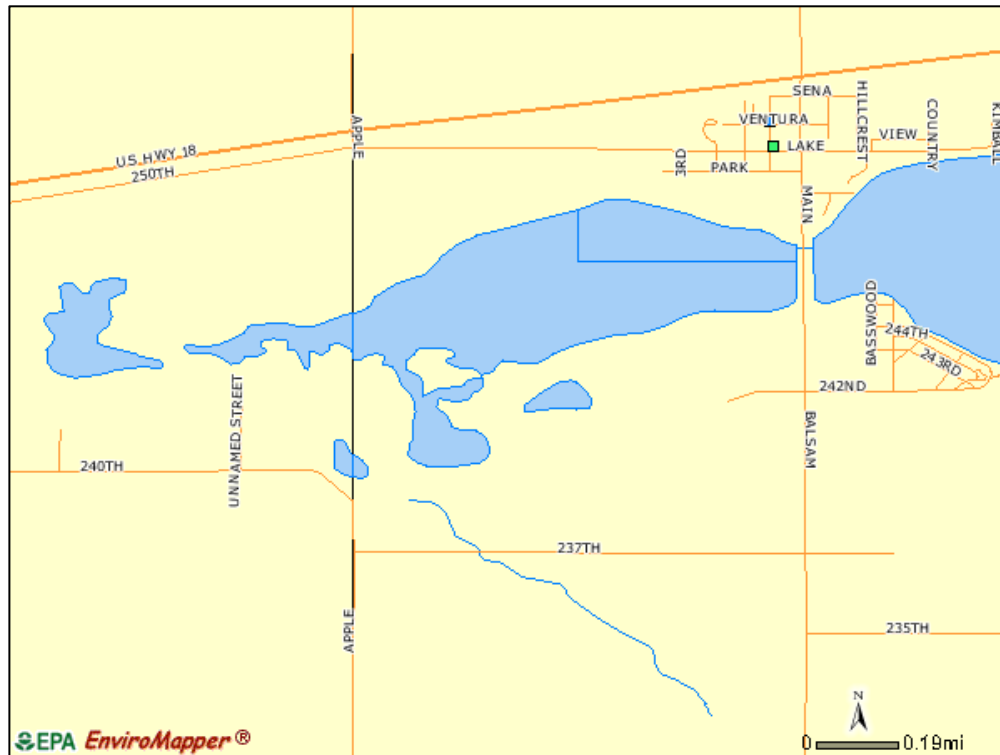


Figure E-E-1. EnviroMapper Map of EPA Regulated Facilities

II. Environmental Database Resources Inc (EDR). The environmental database review by the EDR area study reviews several Federal, state, and proprietary databases and makes available study reports. The EDR also maps the results of the study. Specific databases that EDR retrieves information from include:

Federal

- NPL - National Priority List
- Proposed NPL - Proposed National Priority List Sites
- Delisted NPL - NPL Deletions
- NPL Recovery – Federal Superfund Liens
- CERCLIS - Comprehensive Environmental Response, Compensation, and Liability Information System
- CERC-NFRAP - Comprehensive Environmental Response, Compensation, and Liability Information System
- CORRACTS – Corrective Action Report
- RCRIS-TSD - Resource Conservation and Recovery Information System
- RCRIS-LQG - Resource Conservation and Recovery Information System
- RCRIS-SQG - Resource Conservation and Recovery Information System
- ERNS - Emergency Response Notification System

- HMIRS - Hazardous Materials Information Reporting System
- US ENG CONTROLS - Engineering Controls Sites List
- US INST CONTROLS – Sites with Institutional Controls
- CONSENT – Superfund (CERCLA) Consent Decrees
- DOD – Department of Defense Sites
- FUDS – Formerly Used Defense Sites
- US BROWNFIELDS – Brownfields Sites
- ROD – Records of Decision
- UMTRA – Uranium Mill Tailings Sites
- ODI – Open Dump Inventory
- TRIS - Toxic Chemical Release Inventory System
- TSCA - Toxic Substances Control Act
- FTTS – FIFRA/TSCA Tracking System
- SSTS – Section 7 Tracking System
- ICIS – Integrated Compliance Information System
- PADS - PCB Activity Database System
- MLTS - Material Licensing Tracking System
- MINES - Mines Master Index File
- RAATS - RCRA Administrative Action Tracking System

State

- SHWS - State Hazardous Waste
- SWF/LF - List of Licensed Landfills
- AST – Aboveground Storage Tanks Sites
- LUST - Leaking Underground Storage Tank
- UST - Underground Storage Tank
- SPILLS – Spills Database
- INST CONTROL – Sites with Institutional Controls
- VCP – Land Recycling Program Sites
- DRYCLEANERS – Iowa Drycleaner List
- BROWNFIELDS – Brownfields Site Listing
- AIRS – Title V Sources Listing

Tribal

- INDIAN RESERV – Indian Reservations
- INDIAN UST – Underground Storage Tanks on Indian Land

Proprietary

- Manufactured Gas Plants- Manufactured Gas Plants

EDR found:

- Two Resource Conservation and Recovery Act Small Quantity generators (RCRA-SQG) sites – Ventura Mart was identified 1/8 mile to the north, Map ID No. 2; and Northern Border Pipeline Company was identified 1/8 mile to the west, Map ID No. 4.
- Two Facility Index System/Facility Registry System (FINDS) sites – Ventura Mart was identified 1/8 mile to the north, Map ID No. 2; and Northern Border Pipeline Company was identified one-eighth (1/8) mile to the west, Map ID No. 4.
- Three Leaking Underground Storage Tank (LUST) sites – Hancock Co COOP was identified 1/4 mile to the north, Map ID No. 1; Ventura Mart was identified 1/8 mile to the north, Map ID No. 2; and Ventura School was identified 1/4 mile to the north, Map ID No. 3. No Action was required on all three sites.
- Four Underground Storage Tank (UST) sites – Ventura Telephone Co was identified 1/4 mile to the north, Map ID No. 1; Hancock Co COOP was identified one-fourth (1/4) mile to the north, Map ID No. 1; Ventura Mart was identified 1/8 mile to the north, Map ID No. 2; and Ventura School was identified 1/4 mile to the north, Map ID No. 3.

After reviewing the above sites, none showed any evidence of recognized environmental conditions.

The database was queried on June 29, 2006.

APPENDIX E-F

SITE RECONNAISSANCE PHOTOGRAPHIC LOG AND PHOTOGRAPHS

DRAFT

APPENDIX E-F

SITE RECONNAISSANCE PHOTOGRAPHIC LOG AND PHOTOGRAPHS





Photograph 1. Facing South West – Shoreline by Boat Ramp



Photograph 2. Facing South East – Shoreline by Boat Ramp



Photograph 3. Facing North – Boat Ramp



Photograph 4. Facing North – Parking Lot for Boat Ramp



Photograph 5. Facing East – Parking Lot Entrance



Photograph 6. Facing South East – Detention Pond Area



Photograph 7. Facing East – Parking Lot Entrance



Photograph 8. Facing West – Possible Pump Station Location



Photograph 9. Facing South East – New Park Area



Photograph 10. Facing North East – New Park Area



Photograph 11. Facing North – County Highway S14



Photograph 12. Facing South – County Highway S14



Photograph 13. Facing South – Shoreline of Marsh



Photograph 14. Facing South West – Shoreline of Marsh



Photograph 15. Facing West –Fish Trap



Photograph 16. Facing North West –Fish Trap



Photograph 17. Facing East – Stoplog Structure



Photograph 18. Facing East - Close up of Stoplog Structure



Photograph 19. Facing North East – Shoreline of Marsh



Photographic Log (Photo from 1994)



Photograph 20. Facing North East – Borrow Area



Photograph 21. Facing North West – Borrow Area



Photograph 22. West – Borrow Area



Photographic Log (Photo from 1994)



Photograph 23. Facing South - Road to Borrow Area



Photograph 24. Facing South West - Road to Borrow Area



Photograph 25. Facing North West - Field



Photograph 26. Facing South West - Borrow Area



Photograph 27. Facing East – Adjacent Pond



Photograph 28. Facing North - Inlet



Photographic Log (Photo from 1994)

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Photograph 29 Facing East – Northwestern Corner of the Marsh



Photograph 30. Facing SW – Northwestern Corner of the Marsh



Photograph 31. Facing West – Northwestern Corner of the Marsh



Photograph 32. Facing North – Old Highway 18

APPENDIX E-G

HISTORICAL RESEARCH DOCUMENTATION

Historical Aerial Photographs

| | |
|--------------|------|
| Photograph 1 | 1972 |
| Photograph 2 | 1974 |
| Photograph 3 | 1978 |
| Photograph 4 | 1979 |
| Photograph 5 | 1982 |
| Photograph 6 | 1984 |
| Photograph 7 | 1987 |
| Photograph 8 | 1994 |
| Photograph 9 | 2004 |

Historical Topographic Maps

| | |
|----------|----------------------------|
| Figure 1 | Miller, IA - 1972 |
| Figure 2 | Clear Lake West, IA - 1972 |
| Figure 3 | Garner, IA - 1972 |
| Figure 4 | Ventura Heights, IA - 1972 |
| Figure 5 | 1980 |



Photograph 1. 1972



Photograph 2. 1974

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Photograph 3. 1978



Photograph 4. 1979

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Photograph 5. 1982



Photograph 6. 1984



Photograph 7. 1987



Photograph 8. 1994

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Photograph 9. 2004



Figure 1. Topographic Map – Miller, IA - 1972

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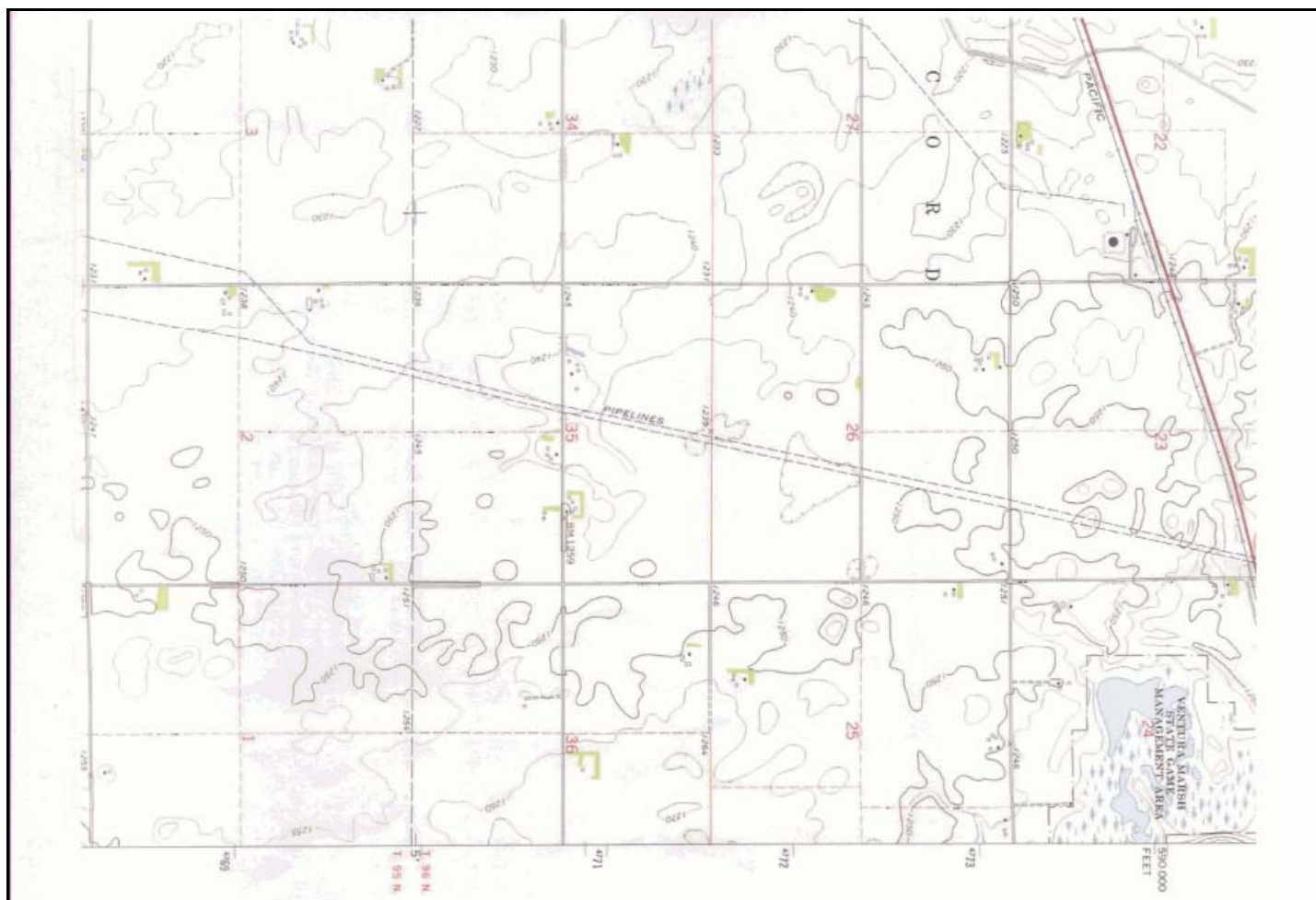


Figure 3. Topographic Map – Garner, IA - 1972

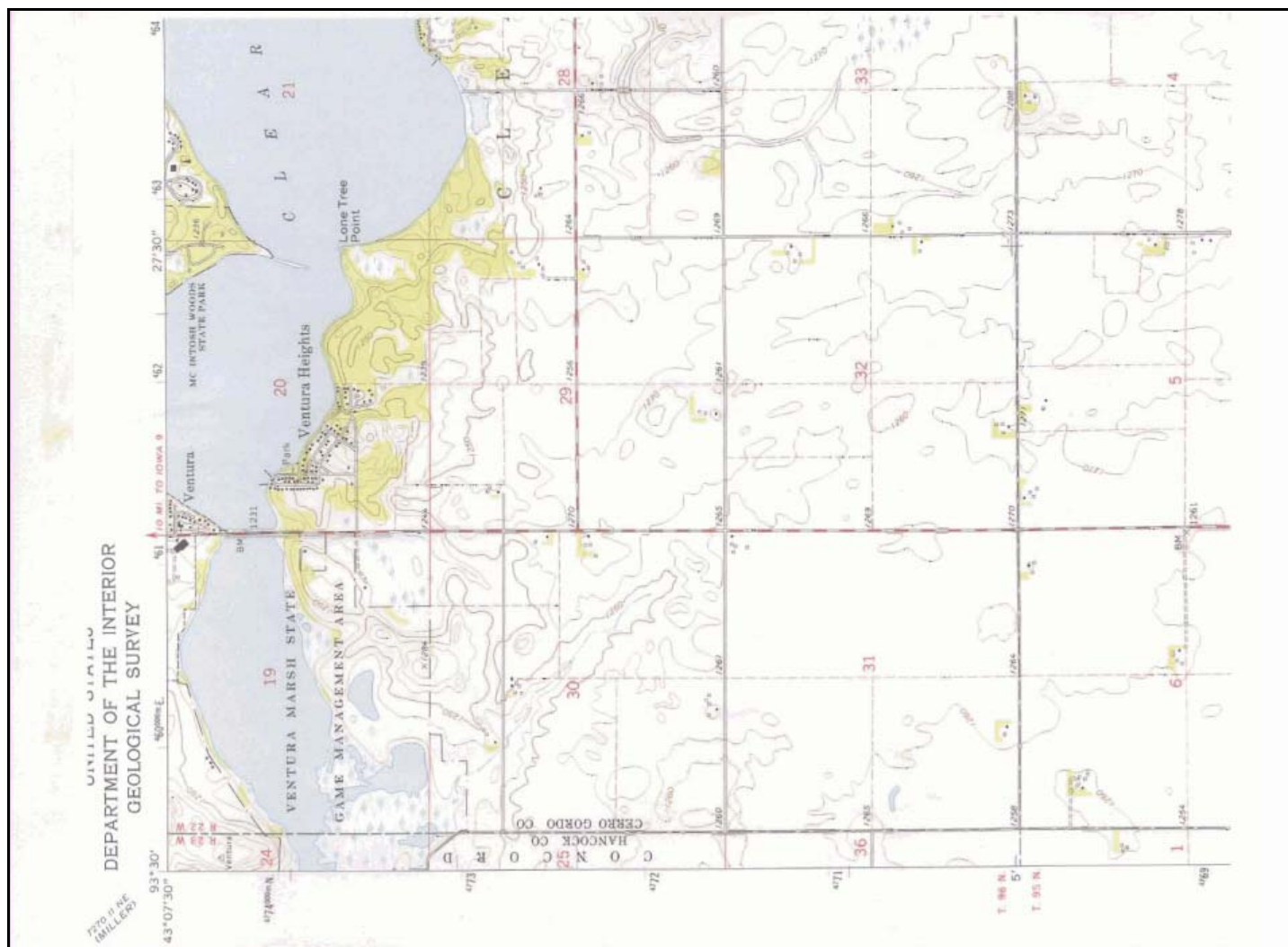


Figure 4. Topographic Map – Ventura Heights, IA - 1972

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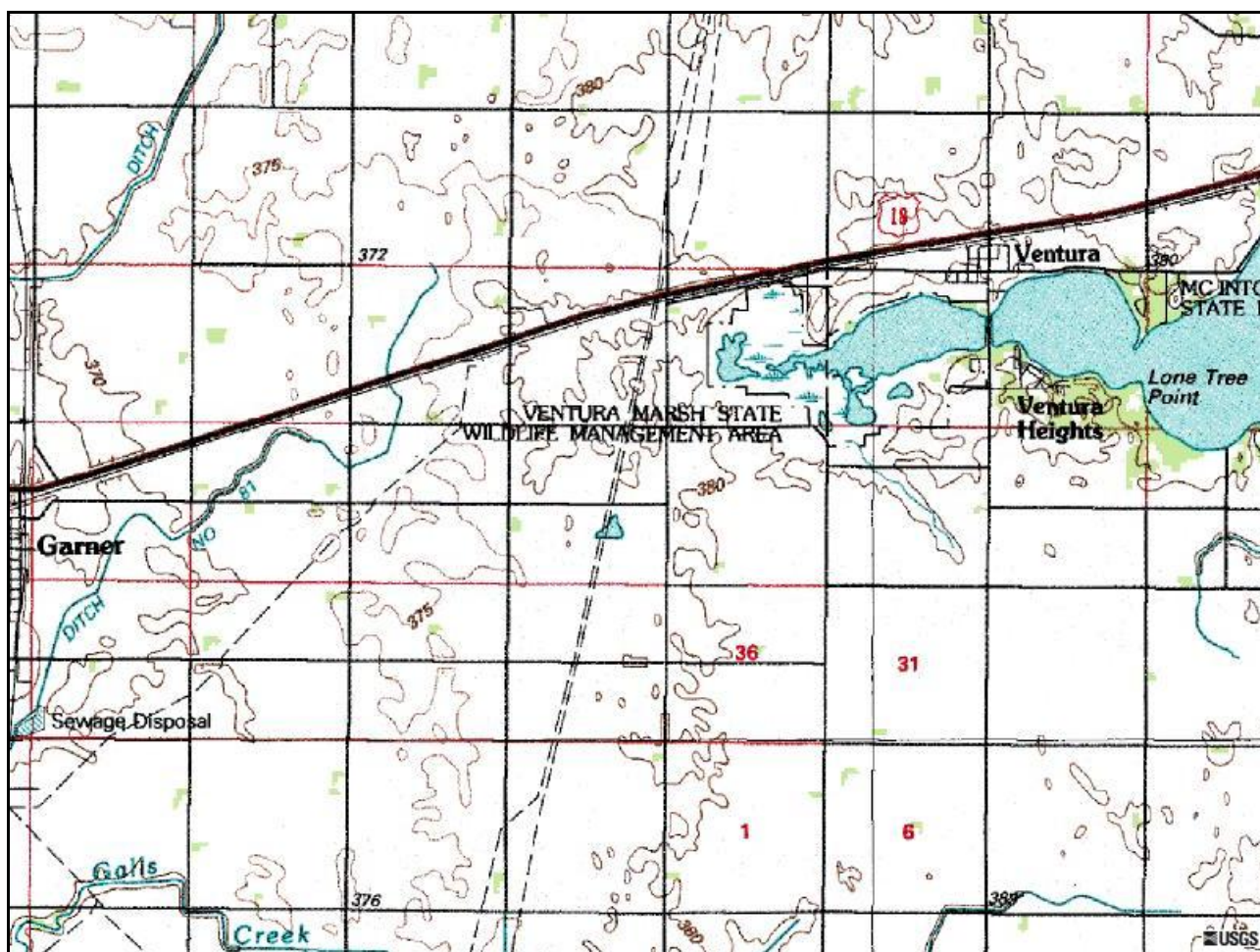


Figure 5. Topographic Map - 1980

APPENDIX E-H

INTERVIEW DOCUMENTATION

| | | | | | | | | |
|--|--|--------------|---|-------------------|--------------------------------|--------------------------------------|----------------------|------------------------|
| CONVERSATION RECORD I | | | | | TIME: 10:00 | | DATE: 1/31/07 | |
| TYPE | | | | | | | ROUTINE | |
| | | VISIT | | CONFERENCE | X | TELEPHONE | NAME/SYMBOL | INI |
| | | | | | | X | INCOMING | |
| Location of Visit/Conference: | | | | | | | OUTGOING | |
| NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU: Doug Janke | | | ORGANIZATION (Office, Dept., Bureau, etc.): Site Manager (IDNR) | | | TELEPHONE NO: 515-532-2765 | | |
| SUBJECT: Phase I Interview | | | | | | | | |
| SUMMARY The following questions were asked of Doug Janke on January 31, 2007: <ol style="list-style-type: none"> 1.) How long have you been associated with Ventura Marsh area? <i>Since 1983</i> 2.) Do you have any knowledge of any spills or dumping activities in the Ventura Marsh area? <i>No.</i> 3.) Do you know of any environmental issues at or around Ventura Marsh? <i>No.</i> 4.) Do you know of any above or underground storage tanks in or around the Ventura Marsh area? <i>No.</i> 5.) Do you know of any pits, ponds, or lagoons? <i>There are 3 wetland ponds.</i> 6.) Has any soil or other debris been disposed of on the subject property? <i>No</i> 7.) Are you aware of any area in the subject property of stressed vegetation, strained soil or smelled foul odors? <i>No.</i> 8.) Are you aware of any hazardous waste generated or stored on Ventura Marsh? <i>No.</i> 9.) Are you aware of any lead-based coatings, asbestos material or PCBs associate with structures on the project area? <i>No.</i> | | | | | | | | |
| ACTION REQUIRED | | | | | | | | |
| NAME OF PERSON DOCUMENTING CONVERSATION Julie Fisher | | | | | SIGNATURE | | | DATE 1/31/07 |
| ACTION TAKEN | | | | | | | | |
| SIGNATURE Julie Fisher | | | | | TITLE Civil Engineer | | | DATE 1/31/07 |

CONVERSATION RECORD

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| | | | | | | | |
|--|--|--------------|---|--------------------------------|----------|-----------------------------------|--|
| CONVERSATION RECORD II | | | | TIME: 8:40 | | DATE: 8/24/06 | |
| TYPE | | | | | | ROUTINE | |
| | | VISIT | | CONFERENCE | X | TELEPHONE | |
| | | | | | | INCOMING | |
| Location of Visit/Conference: | | | | | | OUTGOING | |
| NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU: Doug Meyer | | | ORGANIZATION (Office, Dept., Bureau, etc.): Chief, Volunteer Fire Department | | | TELEPHONE NO: 641-357-4966 | |
| SUBJECT: Phase I Interview | | | | | | | |
| SUMMARY The following questions were asked of Doug Meyer on August 24, 2006: <ol style="list-style-type: none"> 1.) How long have you been associated with Ventura Marsh area? <i>I have worked with the Fire Department for 30 years. I also grew up in the area so I have been using the marsh ever since.</i> 2.) Do you have any knowledge of any spills or dumping activities in the Ventura Marsh area? <i>No, in the past 30 years I do not ever remember a response sent to the Ventura Marsh area.</i> 3.) Do you know of any environmental issues at or around Ventura Marsh? <i>No...well there is a lot of farm field run off of herbicides and pesticides.</i> 4.) Do you know of any above or underground storage tanks in or around the Ventura Marsh area? <i>Yes, to the south and west is L&J and about 3 miles straight west is Anhydrous facility.</i> | | | | | | | |
| ACTION REQUIRED | | | | | | | |
| NAME OF PERSON DOCUMENTING CONVERSATION Julie Fisher | | | | SIGNATURE | | DATE 8/24/06 | |
| ACTION TAKEN | | | | | | | |
| SIGNATURE Julie Fisher | | | | TITLE Civil Engineer | | DATE 8/24/06 | |

CONVERSATION RECORD

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| | | | | | | | |
|---|--|-------|---|-------------------------|---|-------------------------------|-------------|
| CONVERSATION RECORD III | | | | TIME | | DATE: 8/24/06 | |
| TYPE | | | | | | ROUTINE | |
| | | VISIT | | CONFERENCE | X | TELEPHONE | NAME/SYMBOL |
| | | | | | X | INCOMING | |
| Location of Visit/Conference: | | | | | | OUTGOING | |
| NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU: Mary Kelly | | | ORGANIZATION (Office, Dept., Bureau, etc.) Cerro Gordo County Engineer | | | TELEPHONE NO: 641-424-9037 | |
| SUBJECT: Phase I interview | | | | | | | |
| SUMMARY The following questions were asked of Mary Kelly on January 31, 2007: <ol style="list-style-type: none"> 1.) How long have you been associated with Ventura Marsh area? <i>Since 2004</i> 2.) Do you have any knowledge of any spills or dumping activities on highway S14? <i>No</i> 3.) Do you know of any environmental issues at or around S14? <i>No</i> 4.) Do you know of any above or underground storage tanks in or around S14? <i>No</i> 5.) Do you know of any pits, ponds, or lagoons? <i>No</i> 6.) Are you aware of any area on S14 that has stressed vegetation, strained soil or smelled foul odors? <i>No</i> 7.) Are you aware of any hazardous waste generated or stored on S14? <i>No</i> 8.) Are you aware of any lead-based coatings, asbestos material or PCBs associate with structures on the project area? <i>No. The culvert is old enough but I am not aware of any testing done for lead.</i> | | | | | | | |
| ACTION REQUIRED | | | | | | | |
| NAME OF PERSON DOCUMENTING CONVERSATION Julie Fisher | | | | SIGNATURE | | DATE 1/31/07 | |
| ACTION TAKEN | | | | | | | |
| SIGNATURE Julie Fisher | | | | TITLE Civil Engineer | | DATE 1/31/07 | |

CONVERSATION RECORD

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| | | | | | | | | |
|--|----------|--------------|--|-------------------|--------------------------------|-----------------------------------|----------------------|------------------------|
| CONVERSATION RECORD IV | | | | | TIME | | DATE: 8/28/06 | |
| TYPE | | | | | | | ROUTINE | |
| | X | VISIT | | CONFERENCE | | TELEPHONE | NAME/SYMBOL | INI |
| | | | | | | INCOMING | | |
| Location of Visit/Conference: | | | | | | OUTGOING | | |
| NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU: John Gall | | | ORGANIZATION (Office, Dept., Bureau, etc.): USACE-EC-SO | | | TELEPHONE NO: 309-794-5252 | | |
| SUBJECT: Phase I Interview | | | | | | | | |
| SUMMARY The following questions were asked of John Gall on August 28, 2006: 1.) While you were surveying the Marsh did you see any environmental issues? <i>No.</i> 2.) Do see any spills or dumping activities in the Ventura Marsh area? <i>No trash was seen.</i> 3.) Did you see any pits or lagoons? <i>No.</i> 4.) Did you see any area in the marsh that had stressed vegetation, stained soil or smelled any foul odor? <i>No.</i> | | | | | | | | |
| ACTION REQUIRED | | | | | | | | |
| NAME OF PERSON DOCUMENTING CONVERSATION Julie Fisher | | | | | SIGNATURE | | | DATE 8/24/06 |
| ACTION TAKEN | | | | | | | | |
| SIGNATURE Julie Fisher | | | | | TITLE Civil Engineer | | | DATE 8/24/06 |

CONVERSATION RECORD

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